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RGS/46 Date: 9/16/03  
09-25-03 A09:03 Doc. No. 4269-83  
Serial No. 09/430,501  
Inventor: Huang et al

Sir: Kindly acknowledge receipt of the accompanying items listed below  
by placing your receiving stamp hereon and return mailing:

Application Transmittal and: Check \$  
Specification pages IDS & PTO-1449 & refs.  
No. of Claims Amendment & Amend. Transmittal  
Declaration & POA Preliminary Amendment  
Assignment and Fee Issue Fee  
Small Entity Statement Brief  
Formal Drawings/ sheets Appeal  
Associate Power of Attorney Submittal of Priority Doc.  
Exp. Mail 1st Class Mail

✓ Other: Request for Reconsideration AF; 2nd Duplicate  
Submittal of IDS; Copies of original IDS & PTO-1449; Copies  
of ref. 160-273.

Respectfully submitted,  
MYERS BIGEL SIBLEY & SAJOVEC, P.A.  
Attorneys for Applicant



Attorney's Docket No. RAL9-99-01110/4269-83

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Hwang, et al.

Serial No.: 09/430,501

Filed: October 29, 1999

For: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR  
CARRIER DROP DETECTION USING A VARIABLE THRESHOLD

Confirmation No.: 7395

Group Art Unit: 2631

Examiner: Pankaj Kumar

Date: October 25, 2002

Commissioner for Patents  
Washington, DC 20231

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**SECOND DUPLICATE SUBMITTAL  
OF INFORMATION DISCLOSURE STATEMENT**

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Sir:

Enclosed please find a second duplicate submittal of the Information Disclosure Statement (IDS) that was mailed to the USPTO on June 28, 2000 via first class mail. Copies of the IDS (including a Certificate Of Mailing showing filing on June 28, 2000), Form PTO-1449 (citing 273 references), and two stamped post cards (indicating receipt at the USPTO) are enclosed herewith. Copies of cited non-patent documents (items 160-273) also are enclosed.

Applicants respectfully submit that the stamped post cards indicate receipt of all 273 references by the Patent Office on July 3, 2001 and receipt of the non-patent documents on October 30, 2002. Accordingly, Applicants request formal indication of consideration of all references not previously initialed (items 160-273) in the Information Disclosure Statement filed June 28, 2000.

As reference items 160-273 were misplaced by the USPTO, Applicants respectfully submit that no additional fee is necessary. The Commissioner is hereby authorized to charge any additional fees or credit any overpayment to Deposit Account No. 50-0563.

Respectfully submitted,

Rohan G. Sabapathypillai  
Registration No. 51,074

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Mail Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on September 16, 2004.

  
Traci A. Brown

<b>FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office</b>  <b>LIST OF DOCUMENTS CITED BY APPLICANT</b>  (Use several sheets if necessary)	<b>Attorney Docket Number</b> RA9-99-0110/4269-83	<b>Serial No.</b> 09/430,501
	<b>Applicant:</b> Hwang, et al.	
	<b>Filing Date :</b> October 29, 1999	<b>Group</b> 2731



## U. S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	1	5,835,538	11/10/98	Townshend	375	295	
	2	5,831,561	11/3/98	Cai et al.	341	106	
	3	5,809,075	9/15/98	Townshend	375	254	
	4	5,801,695	9/1/98	Townshend	375	340	
	5	5,793,809	8/11/98	Holmquist	375	242	
	6	5,784,405	7/21/98	Betts et al.	375	222	
	7	5,778,024	7/7/98	McDonough	375	216	
	8	5,768,311	6/16/98	Betts et al.	375	222	
	9	5,761,247	6/2/98	Betts et al.	375	316	
	10	5,757,849	5/26/98	Gelblum et al.	375	222	
	11	5,754,594	5/19/98	Betts et al.	375	285	
	12	5,729,226	3/17/98	Betts et al.	341	94	
	13	5,598,401	1/28/97	Blackwell et al.	379	94	
	14	5,546,395	8/13/96	Sharma et al.	370	84	
	15	5,534,913	7/9/96	Majeti et al.	348	7	
	16	5,528,679	6/18/96	Taarud	379	34	
	17	5,528,625	6/18/96	Ayanoglu et al.	375	222	
	18	5,406,583	4/11/95	Dagdeviren	375	5	
	19	5,394,437	2/28/95	Ayanoglu et al.	375	222	
	20	5,394,110	2/28/95	Mizoguchi	329	304	
	21	5,291,479	3/1/94	Vaziri et al.	370	58.2	
	22	5,253,291	10/12/93	Naseer et al.	379	406	
	23	5,210,755	5/11/93	Nagler et al.	370	108	
	24	5,157,690	10/20/92	Burtie	375	14	
	25	5,134,611	7/28/92	Steinka et al.	370	79	
	26	5,119,403	6/2/92	Krishnan	375	39	
	27	5,119,401	6/2/92	Tsujimoto	375	14	
	28	5,067,125	11/19/91	Tsuchida	370	79	
	29	5,052,000	9/24/91	Wang et al.	371	43	
	30	5,040,190	8/13/91	Smith et al.	375	4	
	31	5,033,062	7/16/91	Morrow et al.	375	7	
	32	5,014,299	5/7/91	Klupt et al.	379	98	
	33	4,995,030	2/19/91	Helf	370	32.1	
	34	4,985,902	1/15/91	Gurcan	375	14	
	35	4,972,360	11/20/90	Cuckier et al.	364	724.04	
	36	4,901,333	2/13/90	Hodgkiss	375	98	
	37	4,890,303	12/26/89	Bader	375	107	
	38	4,884,285	11/28/89	Heynen et al.	375	25	
	39	4,868,863	9/19/89	Hartley et al.	379	98	
	40	4,797,898	1/10/89	Martinez	375	7	

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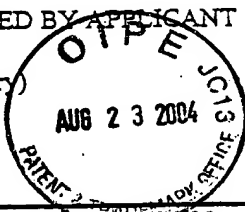
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Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>FORM PTO-1449 U.S. Department of Commerce</b> <b>Patent and Trademark Office</b>				<b>Attorney Docket Number</b> RA9-99-0110/4269-83		<b>Serial No.</b> 09/430,501	
<b>LIST OF DOCUMENTS CITED BY APPLICANT</b> (Use several sheets if necessary)				<b>Applicant:</b> Hwang, et al.			
<div style="text-align: center;">  </div>				<b>Filing Date :</b> October 29, 1999		<b>Group</b> 2731	

	41	4,760,598	7/26/88	Ferrell	380	44
	42	4,720,861	1/19/88	Bertrand	381	36
	43	4,578,796	3/25/86	Charalambous et al.	375	8
	44	4,577,310	3/18/86	Korsky et al.	370	58
	45	4,450,556	5/22/84	Boleda et al.	370	58
	46	4,434,322	2/28/84	Ferrell	178	22.13
	47	4,270,027	5/26/81	Agrawal et al.	179	81R
	48	4,237,552	12/2/80	Aikoh et al.	370	83
	49	4,132,242	1/2/79	Carroll, Jr.	137	263
	50	4,112,427	9/5/78	Hofer et al.	340	347
	51	3,729,717	4/24/73	de Koe et al.	340	172.5
	52	3,683,120	8/8/72	Schenkel	179	15A
	53	3,557,308	1/19/71	Alexander et al.	178	69.5
	54	5,918,204	6/29/99	Tsurumaru	704	214
	55	5,914,982	6/22/99	Bjarnason et al.	375	222
	56	5,911,115	6/8/99	Nair et al.	455	63
	57	5,887,027	3/23/99	Cohen et al.	375	222
	58	5,881,102	3/9/99	Samson	375	222
	59	5,881,066	3/9/99	Lepitre	371	20.5
	60	5,872,817	2/16/99	Wei	375	341
	61	5,870,429	2/9/9	Moran, III et al.	375	222
	62	5,862,184	1/19/99	Goldstein et al.	375	295
	63	5,862,179	1/19/99	Goldstein et al.	375	242
	64	5,862,141	1/19/99	Trotter	370	468
	65	5,850,421	12/15/98	Misra et al.	375	354
	66	5,850,388	12/15/98	Anderson et al.	370	252
	67	5,844,940	12/1/98	Goodson et al.	375	222
	68	5,838,724	11/17/98	Cole et al.	375	222
	69	5,835,532	11/10/98	Strolle et al.	375	233
	70	5,825,823	10/20/98	Goldstein et al.	375	286
	71	5,825,816	10/20/98	Cole et al.	375	222
	72	5,822,371	10/13/98	Goldstein et al.	375	242
	73	5,815,534	9/29/98	Glass	375	326
	74	5,812,537	9/22/98	Betts et al.	370	286
	75	5,805,669	9/8/98	Bingel et al.	379	28
	76	5,784,415	7/21/98	Chevillat et al.	375	341
	77	5,757,865	5/26/98	Kaku et al.	375	344
	78	5,734,663	3/31/98	Eggenberger	371	39.1
	79	5,726,765	3/10/98	Yoshida et al.	358	412
	80	5,724,393	3/3/98	Dagdeviren	375	296
	81	5,710,792	1/20/98	Fukawa et al.	375	229
	82	5,694,420	12/2/97	Ohki et al.	375	222
	83	5,671,250	9/23/97	Bremer et al.	375	222
	84	5,646,958	7/8/97	Tsujimoto	375	233
	85	5,634,022	5/27/97	Crouse et al.	395	704
	86	5,625,643	4/29/97	Kaku et al.	375	222

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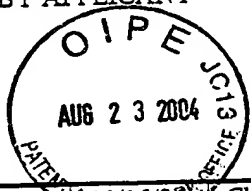
FORM PTO-1449 U.S. Department of Commerce  
Patent and Trademark Office

Attorney Docket Number  
RA9-99-01-10/4269-83

Serial No.  
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Applicant: Hwang, et al.

Filing Date :  
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2731

87	5,566,211	10/15/98	Choi	375	332
88	5,563,908	10/8/96	Kaku et al.	375	222
89	5,533,048	7/2/96	Dolan	375	222
90	5,519,703	5/21/96	Chauffour et al.	370	84
91	5,513,216	4/30/96	Gador et al.	375	233
92	5,475,711	12/12/95	Berts et al.	375	240
93	5,434,884	7/18/95	Rushing et al.	375	235
94	5,432,794	7/11/95	Yaguchi	371	5.5
95	5,418,842	5/23/95	Cooper	379	98
96	5,402,445	3/28/95	Matsuura	375	229
97	5,398,303	3/14/95	Tanaka	395	51
98	5,386,438	1/31/95	England	375	121
99	5,351,134	9/27/94	Yaguchi et al.	358	435
100	5,285,474	2/8/94	Chow et al.	375	13
101	5,265,151	11/23/93	Goldstein	379	97
102	5,253,272	10/12/93	Jaeger et al.	375	60
103	5,225,997	7/6/93	Lederer et al.	364	550
104	5,142,552	8/25/92	Tzeng et al.	375	14
105	5,111,481	5/5/92	Chen et al.	375	14
106	5,107,520	4/21/92	Karam et al.	375	60
107	5,065,410	11/21/91	Yoshida et al.	375	98
108	5,007,047	4/9/91	Sridhar et al.	370	32.1
109	5,005,144	4/2/91	Nakajima et al.	364	565
110	4,991,169	2/5/91	Davis et al.	370	77
111	4,953,210	8/28/90	McGlynn et al.	380	48
112	4,943,980	7/24/90	Dobson et al.	375	42
113	4,894,847	1/16/90	Tjahjadi et al.	375	121
114	4,890,316	12/26/89	Walsh et al.	379	98
115	4,833,706	5/23/89	Hughes-Hartogs	379	98
116	4,756,007	7/5/88	Qureshi et al.	375	37
117	4,731,816	3/15/88	Hughes-Hartogs	379	98
118	4,208,630	6/17/80	Martinez	375	7
119	3,622,877	11/23/71	MacDavid et al.	324	73 R
120	5,839,053	11/17/98	Bosch et al.	455	13.1
121	5,068,875	11/26/91	Quintin	375	78
122	5,058,134	10/15/91	Chevillat et al.	375	39
123	5,038,365	8/6/91	Belloc et al.	375	8
124	4,967,413	10/30/90	Otani	371	37.4
125	5,311,578	5/10/94	Bremer et al.	379	97
126	5,317,594	5/31/94	Goldstein	375	8
127	5,926,506	7/20/99	Berthold et al.	375	222
128	5,491,720	2/13/96	Davis et al.	375	222
129	5,353,280	10/4/94	Ungerboeck	370	32.1
130	5,852,631	12/22/98	Scott	375	222
131	5,732,104	3/24/98	Brown et al.	375	222
132	5,796,808	8/18/98	Scott et al.	379	93.31

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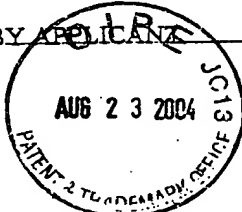
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133	5,751,796	5/12/98	Scott et al.	379	93.31
134	5,187,732	2/16/93	Suzuki	379	5
135	5,640,387	6/17/97	Takahashi et al.	370	359
136	5,751,717	5/12/98	Babu et al.	370	466
137	5,784,377	7/21/98	Baydar et al.	370	463
138	5,887,027	3/23/99	Cohen et al.	375	222
139	5,850,388	12/15/98	Anderson et al.	370	252
140	5,914,982	6/22/99	Bjarnason et al.	375	222
141	5,726,765	3/10/98	Yoshida et al.	358	412
142	5,850,421	12/15/98	Misra et al.	375	354
143	5,729,226	3/17/98	Betts et al.	341	94
144	5,862,184	1/19/99	Goldstein et al.	375	295
145	5,911,115	6/8/99	Nair et al.	455	63
146	5,838,724	11/17/98	Cole et al.	375	222
147	5,784,415	7/21/98	Chevillat et al.	375	341
148	5,844,940	12/1/98	Goodson et al.	375	222
149	5,386,438	1/31/95	England	375	121
150	5,881,102	3/9/99	Samson	375	222
151	5,285,474	2/8/94	Chow et al.	375	13
152	5,513,216	4/30/96	Gadot et al.	375	233
153	5,835,532	11/10/98	Strolle et al.	375	233
154	5,418,842	5/23/95	Cooper	379	98

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	Document Number	Date	Country	Class	Subclass	Translation Yes   No
155	WO 98/37657	8/27/98	PCT	H04L		
156	WO 96/18261	6/13/96	PCT	H04M	11/00	
157	0 669 740 A2	12/14/94	Europe	H04L	27/00	
158	0 659 007 A2	11/8/94	Europe	H04M	11/06	
159	0 473 116 A2	8/27/91	Europe	H04N	1/00	
160	2 345 019	3/19/76	France	H04L	27/10	

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

161	Erup, et al., <i>Interpolation in Digital Modems - Part II: Implementation and Performance</i> , <u>IEEE Transactions on Communications</u> , Vol. 41, No. 6, pp. 998-1008 (June 1993)
162	Fischer, <i>Signal Mapping for PCM Modems</i> , <u>V-pcm Rapporteur Meeting</u> , Sunriver, Oregon, USA, , 5 pgs. (September 4-12, 1997)
163	Gardner, <i>Interpolation in Digital Modems - Part I: Fundamentals</i> , <u>IEEE Transactions on Communications</u> , Vol. 41, No. 3, pp. 501-507 (March 1993)
164	Humblet et al., <i>The Information Driveway</i> , <u>IEEE Communications Magazine</u> , pp. 64-68 (December 1996)
165	Kalet et al., <i>The Capacity of PCM Voiceband Channels</i> , <u>IEEE International Conference on Communications '93</u> , pp. 507-511 (Geneva, Switzerland, May 23-26, 1993)
166	Mueller et al., <i>Timing Recovery in Digital Synchronous Data Receiver</i> , <u>IEEE Transactions on Communications</u> , Vol. Com-24, No. 5, pp. 516-531 (May 1976)

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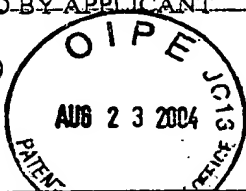
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LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)		Applicant: Hwang, et al.	AUG 27 2004 Technology Center 2600
AUG 23 2004		Filing Date : October 29, 1999	Group 2731
167	Okubo et al., <i>Building Block Design of Large Capacity PCM-TDMA Subscriber System and Direct Digital Interface to Digital Exchange</i> , Japan Radio Co., Ltd., pp. 69-73 (Japan)		
168	Pahlavan et al., <i>Nonlinear Quantization and the Design of Coded and Uncoded Signal Constellations</i> , <u>IEEE Transactions on Communications</u> , Vol. 39, No. 8, pp. 1207-1215 (August 1991)		
169	Proakis, <i>Digital Signaling Over a Channel with Intersymbol Interference</i> , <u>Digital Communications</u> , pgs. 373, 381 (McGraw-Hill Book Company, 1983)		
170	Williams et al., <i>Counteracting the Quantisation Noise from PCM Codecs</i> , BT Laboratories, pp. 24-29 (UK)		
171	A Digital Modem and Analogue Modem Pair for Use on the Public Switched Telephone Network (PSTN) at Data Signalling Rates of Up to 56 000 Bit/s Downstream and 33 600 Bit/s Upstream, <u>ITU-T V.90</u> (September 1998)		
172	Series V: Data Communication Over the Telephone Network; Interfaces and voiceband modems; A modem operating at data signalling rates of up to 33 600 bit/s for use on the general switched telephone network and on leased point-to-point 2-wire telephone type circuits, <u>ITU-T V.34</u> (10/96)		
173	Bell, R.A., et al., <i>Automatic Speed Reduction and Switched Network Back-up</i> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 32, No. 1, pp. 154-157 (June 1989)		
174	Abbate, J.C., et al., <i>Variable-Data Transmission Modem</i> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 17, No. 11, pp. 3301-3302 (April 1975)		
175	Data Communication Over the Telephone Network; Procedures for Starting Sessions of Data Transmission Over the General Switched Telephone Network, <u>ITU-T V.8</u> (09/94)		
176	Line Quality Monitoring Method, <u>IBM Technical Disclosure Bulletin</u> , Vol. 18, No. 8, pp. 2726-2726 (January 1976)		
177	Loopback Tests for V.34 Data Communication Equipment, <u>IBM Technical Disclosure Bulletin</u> , Vol. 32, No. 3A, pp. 295-299 (August 1989)		
178	On-Line Real Time Modem Testing, <u>IBM Technical Disclosure Bulletin</u> , Vol. 20, No. 6, pp. 2252-2254 (November 1977)		
179	Pierobon, Gianfranco L., <i>Codes of Zero Spectral Density at Zero Frequency</i> , <u>IEEE Transactions on Information Theory</u> , Vol. IT-30, No. 2, pp. 435-439 (March, 1984)		
180	Marcus, Brian H., et al., <i>On Codes with Spectral Nulls at Rational Submultiples of the Symbol Frequency</i> , <u>IEEE Transactions on Information Theory</u> , Vol. IT-33, No. 4, pp. 557-568 (July 1987)		
181	Fischer, Robert, et al., <i>Signal Mapping for PCM Modems</i> , <u>ITU-Telecommunications Standardization Sector PCM '97-120. V.pcm Rapporteur Meeting</u> , (Sunriver, Oregon; September 4-12, 1997)		
182	Pulse Code Modulation (PCM) of Voice Frequencies, <u>ITU-T Recommendation G.711</u> (Geneva, 1972)		
183	Series G: Digital Transmission Systems; Terminal equipments - Coding of analogue signals by pulse code modulation; Pulse code modulation (PCM) of voice frequencies, <u>ITU-T Recommendation G.711</u> (Geneva, 1996)		
184	Data Communication Over the Telephone Network; Error-Correcting Procedures for DCEs Using Asynchronous-to-Synchronous Conversion, <u>ITU-T V.42</u> (03/93)		
185	Improvement to Spectral Shaping Technique, <u>Research Disclosure</u> , V. 41, n415,415111, pp. 1550-1551 (November 1998)		
186	TIA Standard Draft: North American Telephone Network Transmission Model for Evaluating Analog Client to Digitally Connected Server Modems, Telecommunications Industry Association, PN3857, Draft 10 (February 1999)		
187	Davis, Gordon T., <i>DSP and MATLAB implementation of model-based constellation generation</i> . (September 18, 1998)		
188	Woodruff, K.R., et al, <i>Automatic and Adaptive System and Efficient Communication in Noisy Communication Line Environments</i> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 24, No. 9, pp. 4627-4629 (February 1982)		

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